

19990407.qrp v01\_n419.qrl.990407

Date: Wed, 7 Apr 1999 19:03:18 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1419

QRP-L Digest 1419

Topics covered in this issue include:

- 1) [37483] Re: \*\* SG-2020 & SG-500 Special Offer! \*\*  
by PUNISHER3@aol.com
- 2) [37484] Re: lightning protection  
by Anthony Mark-CFES03 <CFES03@lmpsilo2.comm.mot.com>
- 3) [37485] Re: \*\* SG-2020 & SG-500 Special Offer! \*\*  
by "Michael A. Gipe" <mgipe@reliablemeters.com>
- 4) [37486] 80 meter band noise floor  
by John McKee <JMckee@RFMD.com>
- 5) [37487] Re: Ten-Tec 544  
by Jim Lowman <jmlowman@ix.netcom.com>
- 6) [37488] Gap Titan ant. tuning  
by "Larry Przyborowski" <lprzyski@erols.com>
- 7) [37489] Re: [Grounding]& Lightning(long)  
by "Bruce" <Bruce2@prodigy.net>
- 8) [37490] FYBO pics on my web site  
by "David Ek" <ekdave@earthlink.net>
- 9) [37491] Flower Station VE6EWM  
by Bruce Rattray <rattray@gpfn.sk.ca>
- 10) [37492] TR-22 QRP VHF Mods  
by Richard Arland <k7sz@epix.net>
- 11) [37493] grounding a loop?  
by PUNISHER3@aol.com
- 12) [37494] Re: Fw: Open wire spreaders  
by S LYON <sslyon@worldnet.att.net>
- 13) [37495] Summary Sheet for ARCI Spring QSO Party  
by Joe Gervais <vole@primenet.com>
- 14) [37496] Re: Open wire spreaders -weedwacker  
by S LYON <sslyon@worldnet.att.net>
- 15) [37497] Lightning protection  
by Pete Burbank <plburbank@kih.net>
- 16) [37498] Re: Solar Station  
by herr@ridgecrest.ca.us (Michael Herr)
- 17) [37499] Misc. for sale - spring cleaning.  
by maprath@prairienet.org (Mark A. Prather)
- 18) [37500] Re: Lightning protection  
by "Bruce" <Bruce2@prodigy.net>
- 19) [37501] April QRP Quarterly Contents

- by "George Heron" <n2apb@erols.com>
- 20) [37502] Shearcutters for newbies -- On Sale !!  
by "Radman" <radman@best.com>
- 21) [37503] Mail response from Elecraft  
by Paolo Sassoli <paolo.sassoli@italtel.it>
- 22) [37504] Re: April QRP Quarterly Contents  
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 23) [37505] TR-22 Power Mod - OOPS!  
by Richard Arland <k7sz@epix.net>
- 24) [37506] QRP-L Rig  
by "Harry T. Hurst, WA3PTG" <hhurst@delaware.infi.net>
- 25) [37507] Tnx  
by "Fishman, Clark [AMSTA-AR-FSF-I]" <cfishman@pica.army.mil>
- 26) [37508] Re: Lightning protection  
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 27) [37509] re: R7000 (was:Antenna comments please)  
by Neil Klagge <w0yse@juno.com>
- 28) [37510] Re: Lightning protection  
by Michael Neverdosky <MichaelN@cycat.com>
- 29) [37511] Re: Lightning protection  
by "David Reid" <dareid@Synopsys.COM>
- 30) [37512] trade  
by bkobie@webtv.net (patrick obrien)
- 31) [37513] RE: Lightning protection  
by "Nathan Odle" <nodle01@mail.coin.missouri.edu>
- 32) [37514] Re: QRP-L Rig  
by Bill Jones <kd7s@psnw.com>
- 33) [37515] For sale  
by john d langridge <kb5njd@juno.com>
- 34) [37516] Looking for Gent from Atlanticon  
by Tom M <tjmc@erols.com>
- 35) [37517] Re: QRP-L Rig  
by "Ed Manuel, N5EM" <n5em@flash.net>
- 36) [37518] Re: 10m FM activity?  
by Jkn1olo@aol.com
- 37) [37519] Re: Lightning protection  
by Michael Neverdosky <MichaelN@cycat.com>
- 38) [37520] NC 20  
by "Hans =?ISO-8859-1?Q?Sundstr=F6m"?= <hans.sundstrom@telia.com>
- 39) [37521] who had the double needle meters for sale?  
by Steve <smann@advi.net>
- 40) [37522] Re: April QRP Quarterly Contents  
by Ron Stark <ku7y@dri.edu>
- 41) [37523] Some thoughts and three rigs for sale  
by "Hartwell, Martin E (Marty)" <mhartwell@lucent.com>
- 42) [37524] Items that are sold  
by john d langridge <kb5njd@juno.com>
- 43) [37525] Interesting ditty

- by "S. M. Whitehouse" <ke4yh@email.msn.com>
- 44) [37526] Re: April QRP Quarterly Contents  
by "Ed Hare, W1RFI" <w1rfi@arrl.net>
- 45) [37527] Gear for sale.  
by James Parsons <k5rov@wcc.net>
- 46) [37528] Changing E-MAIL address  
by "JUNIUS B FOX" <w5hir@gte.net>
- 47) [37529] Kachina qrp?  
by dave\_epps@juno.com
- 48) [37530] Digest requests  
by Brad Mugleston <bmug@gwl.com>
- 49) [37531] AR QRP 40m Net Tonight!  
by Robsparks@aol.com
- 50) [37532] Need Index Labs Contact  
by Bob Patten <n4bp@bc.seflin.org>
- 51) [37533] Need help debugging 38 Special  
by "Barry L. Geipel - AD6HR" <bgeipel@primenet.com>
- 52) [37534] Re: Lightning protection  
by "Bruce" <Bruce2@prodigy.net>
- 53) [37535] Hardware question  
by Jim Glover <psykey@okcforum.org>
- 54) [37536] Parking Lot Portable Vertical (PLPV) Extended to 30 mteres  
by Sam Billingsley <SBillingsley@usaninc.com>
- 55) [37537] Re: Need Index Labs Contact  
by "Radman" <radman@best.com>
- 56) [37538] Re: Hardware question  
by Bruce Kizerian <kizerian@ced.utah.edu>
- 57) [37539] Re: Parking Lot Portable Vertical (PLPV) Extended to 30 mteres  
by Thomas Jennings <jennings@eng14.rochny.uspra.abb.com>
- 58) [37540] RE: Parking Lot Portable Vertical (PLPV) Extended to 30 mteres  
by Sam Billingsley <SBillingsley@usaninc.com>
- 59) [37541] Re: Mail response from Elecraft  
by "Eric Swartz - Elecraft, WA6HHQ" <erics@elecraft.com>
- 60) [37542] Re: [HomeBrew] Hardware question  
by <msix@nmia.com>
- 61) [37543] Re: [HomeBrew] Hardware question  
by "Brad Hernlem" <alihernlem@hotmail.com>
- 62) [37544] QRP Plus Contact - TNX!  
by Bob Patten <n4bp@bc.seflin.org>
- 63) [37545] Chemtronics Flux Off - Rosin  
by "Art Neilson, KH7PZ" <art@hawaii.rr.com>
- 64) [37546] Test Equipment Dealer List  
by Chris Trask <ctrask@primenet.com>
- 65) [37547] Lightning Protection  
by "wayne reed" <wlreed@viaduct.custom.net>
- 66) [37548] WANTED: Electronics Data Book for Homebrewers & QRPers by Paul Harden NA5N  
by Dave Barrett <DBarrett@creo.com>

- 67) [37549] Tweaking the GAP - it works  
by "Peter Zenker" <Peter\_DL2FI@csi.com>  
68) [37550] Re: [HomeBrew] Hardware question  
by "Harry T. Hurst" <hhurst@delaware.infi.net>  
69) [37551] 10 Meter antenna help for a novice...  
by MKBalvanz@aol.com  
70) [37552] Re: 10 Meter antenna help for a novice...  
by "Carl Zmola" <zmola@campbellsci.com>

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Date: Tue, 6 Apr 1999 18:53:56 EDT  
From: PUNISHER3@aol.com  
To: qrp-1@lehigh.edu  
Subject: [37483] Re: \*\* SG-2020 & SG-500 Special Offer! \*\*  
Message-ID: <3dd72110.243bea84@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Come on guys.. I thought this was a qrp group. Not a "criticize other manufacturer" group. Lets get back to qrp....

73/72,  
Ben - NW7DX  
A happy SGC customer

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Date: Tue, 6 Apr 1999 18:11:52 -0500  
From: Anthony Mark-CFES03 <CFES03@lmpsilo2.comm.mot.com>  
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>  
Subject: [37484] Re: lightning protection  
Message-ID: <A324FE4331A2D111BC2A00805FA758B1017A0033@s-il02-m.comm.mot.com>  
MIME-Version: 1.0  
Content-Type: text/plain

Radio People:

After implementing or supervising the installation of over 1000 radio sites, I would recommend grounding any unused antennas as we do at our commercial sites. We do it by using a commercial lightning suppressor, such as a Polyphaser or Huber and Suhner but you can do it in your domicile easily. Just attach a SO-239 (female UHF-style connector) to your ground bar with both the center pin and body grounded. Then plug the PL-259 (male) connector on the end of your (temporarily ?)

unused antenna coax into the grounded connector.

At my QTH, I have a ground buss in the attic that my lightning suppressors are attached to. Coax from my HF remote switch and VHF beam enter here and terminate to one side of the suppressors, while the other sides sport 20 foot jumpers over to my station. And the (copper) ground buss has # 1 AWG copper wire running directly down to an eight foot ground rod. (#2 AWG would be fine but I had the #1 at hand.) I will be expanding my ground system to include 2 more ground rods and a ground ring around my (modest) 40 foot tower as I get the time (and can cumshaw 2 more rods...).

Bill, W2EB, stated, "keep the fire outside" and he is right. Commercially, we usually station the suppressors inside the building, right at the cable entrance. Given that you are likely to get sidetracked running 'round to the back of your house to throw the knife switch or move the jumper to the grounded SO-239 after your operating session, having a grounded connector inside, at the back of your equipment desk, is the second best option and a lot better than \*no\* ground. Save your pennies and spring for the suppressors.

As to just disconnecting the antenna lead during a thunderstorm and then letting the coax and antenna float; think about what is happening in your total 'system'. If lightning does strike nearby, your tower is grounded, your rig is grounded and your antenna lead is "floating" at 100,000 volts or more! Where is the energy gonna go? If you are sitting nearby, it just might be that your head through to your Sierra is the least resistance path to ground! And if the lightning doesn't like what is on offer inside, it might decide to rip the coax to shreds outside, arcing to any handy object, grounded or not. Just plain ugly.

Total cost of my grounding system was the purchase price of the suppressors plus the ground rod. Got the suppressors NIB at Dayton, the ground rod at Ace Hardware. Scrounged the wire, ground bar, connectors, bolts.

Off of my soapbox and back to 30 meter DX. Wait, maybe 6 is open!

Disclaimer: I do not work for any grounding company nor hold any of their stock. I do specify a number of these components for purchase at the Salt Mines.

Jakarta Mark ~ K9AM ~ QRP-L #443  
35 miles NW of Chicago k9am@amsat.org

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Date: Tue, 6 Apr 1999 16:27:03 -0700  
From: "Michael A. Gipe" <mgipe@reliablemeters.com>  
To: <PUNISHER3@aol.com>  
Cc: "QRP-L list" <qrp-l@Lehigh.edu>  
Subject: [37485] Re: \*\* SG-2020 & SG-500 Special Offer! \*\*  
Message-ID: <186501be8084\$fd468c10\$140a0a0a@double\_trouble.reliablemeters.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Ben --

I have nothing against SGC, but when a manufacturer targets a QRP organization with spam featuring a sale on a high power amplifier product, I think they should expect a few ironic replies, don't you?

Perhaps if they announced their new QRP automatic tuner on QRP-L, they might get a more favorable response. Check it out on their website.

Yes, let's get back to QRP, and leave the linear amplifier ads to the other lists.

Mike K1MG

>Come on guys.. I thought this was a qrp group. Not a "criticize  
other  
>manufacturer" group. Lets get back to qrp....  
>  
>73/72,  
>Ben - NW7DX  
>A happy SGC customer

-----  
Date: Tue, 6 Apr 1999 13:55:03 -0400  
From: John McKee <JMckee@RFMD.com>  
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>  
Subject: [37486] 80 meter band noise floor  
Message-ID: <199904062341.TAA106746@nss4.cc.Lehigh.EDU>  
MIME-Version: 1.0  
Content-Type: text/plain;

charset="iso-8859-1"

Hi Gang,

Does anyone out there know what a "typical" noise floor for 80 meters would be (-100 something dBm)? That's disregarding extremes like QRN from thunder storms or man made noise.  
tnx es 73

John McKee  
WB4OFT  
jmckee@rfmd.com

-----  
Date: Tue, 06 Apr 1999 11:42:56 -0700  
From: Jim Lowman <jmlowman@ix.netcom.com>  
To: prvalko@oakland.edu  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [37487] Re: Ten-Tec 544  
Message-ID: <370A55B0.77379020@ix.netcom.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Paul R. Valko wrote:

>

> On Mon, 5 Apr 1999, Peter Larsen wrote:

>

> > Regarding the Model 544, "Paul R. Valko" wrote:

> > > 100W, 80-10M (pre-WARC, so just five bands),

> I don't know if you have been a ham for a real long time Pete, but it  
> wasn't that UNcommon for rigs prior to 1980 to NOT include 160M! I had  
> never owned a rig with 160 on it until I bought my Corsair 1 in 1983!

Same here with my Drake R-4/T-4X that I got in 1966, as a brand new  
General  
Class amateur. The nice thing about that gear was that extra crystals  
could  
be bought for any 500-kHz segment between 1.5 and 30 MHz. Adding the  
crystal  
for 160m was a popular option, as was flushing out 10m to full-band  
coverage.  
There was even a frequency synthesizer (FS-4, as I recall - rare as  
hen's  
teeth today) available, to eliminate the need for additional crystals.

When did we get the WARC bands? Was it 1979? Before that, 80-10m coverage was pretty much the norm.

BTW, Paul - nice shack! I took notice of the 515 right in the center of the action.

72 de Jim - AD6CW

-----  
Date: Tue, 6 Apr 1999 20:14:14 -0400  
From: "Larry Przyborowski" <lprzybski@erols.com>  
To: <rohre@arlut.utexas.edu>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [37488] Gap Titan ant. tuning  
Message-ID: <013c01be808b\$92abe1a0\$d3aeaccf@k3peg>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi gang, I asked GAP the following, "Which bands do the adjustable tuning rods cover?"

Their answer was:

The slotted extender by itself controls 12m.  
The slotted extension with the 23" extension below it controls 15m.

And, the capacitor (CAP) in is as follows:  
Info from BUD, KV7G...

Color	Value	Freq.
Black	3300pf	3.5MHz
White	2800pf	3.6MHz
Red	2300pf	3.7MHz
Blue	1900pf	3.8MHz
Green	1500pf	3.9MHz
Clear/Orange	1400pf	4.0MHz

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I suspect they are silver mica capacitors.

72, Larry - K3PEG

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Date: Tue, 6 Apr 1999 17:27:15 -0700  
From: "Bruce" <Bruce2@prodigy.net>  
To: "Roy Lincoln" <wa4dou@usa.net>  
Cc: <qrp-1@lehigh.edu>  
Subject: [37489] Re: [Grounding]& Lightning(long)  
Message-ID: <000601be808d\$6490ae20\$2d809cd1@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Your are correct Roy, and thanks for you comments.  
The choice of the word "arrestor" was that of the manufacturer and not mine.  
I simply put this on the reflector because many are not aware that products  
are made for balanced line or a single wire, but rather are made only for  
coax.

I have taken a direct hit some years ago on a tower up 65 feet in Florida.  
Although well grounded , it still did a fair amount of damage. My Mosley  
yagi withstood it but everything other antenna on the tower vaporized. Coax  
just melted.

What I do is disconnect my transmissions lines from the shack and house  
(keep the fire out of the house) while grounding them well outside; however,  
I do use a grounded arrestor in order to drain off static charges reducing  
noise to the receiver and to be a first line of defense in less destructive  
near misses.

As you say, the secret if there is any-- is to provide a grounding system  
that is large enough to spread out the surge in such a large area so that it  
may be shunted to the earth itself. (I use hundreds of feet of 1/2 copper  
pipe buried 18 inches in the earth with no spoke/leg longer than 75 feet due  
to inductive reactance.)

As you know, NOTHING will arrest or stop a direct hit--a great grounding  
system is the best one can do.

Bruce WB4WZL (Lake Tahoe)

-----Original Message-----

From: Roy Lincoln <wa4dou@usa.net>  
To: Bruce2@prodigy.net <Bruce2@prodigy.net>  
Date: Tuesday, April 06, 1999 4:25 PM  
Subject: Re: [Grounding]& Lightning(long)

Hi Gang,

The term, "lightning arrester" is, i believe, a very poor choice of words. There is no such thing. The term tends to downplay the seriousness or "gravity" of the whole phenomonon. I do not mean to suggest that the term is Bruce's. It predates most all of us.

There are two schools of thought about lightning. One is the conservative school and the other is the liberal. One believes the voltage between two points that eventually ionizes is about one million volts. The other believes

it is more like 900,000 volts per inch. With lightning traversing paths of perhaps 1/8 to 1/2 mile, the latter figure is staggering and the former is not small.

Lightning burns down houses, and is nothing to play with. Currents in a lightning stroke are believed to reach peaks of 10,000-20,000 amps. I have personally observed the aftermath where land mobile radio antennas were vaporized, when hit by lightning. I'm talking 1-2 " wide copper strips, like we think make "good" ground busses, missing!!!

Think of your coax or feeder that comes into the shack as a parallel path for lightning. If you have a truely excellent ground under your antenna, you might have as many as 8,10,12 20 or so ground rods at the base of a tower with

a "cadwelded" grid interconnecting them all. If you had .1 ohms of resistance

between the yagi on a tower and your ground system and had a direct hit to produce 10,000 amps of current, 1000 volts would be developed across your receiver front end(assuming there was nothing there to limit it to a lesser value). Chances are that your equipment would be "adversely affected."

Before there were any things that could help protect your equipment, like fast acting gas discharge tubes, etc., there were "blitz bugs." These were nothing more than enclosed spark gaps. Adjustable ,but still spark gaps. Nothing short of unplugging your equipment from the a.c. outlet ,disconnecting

your antenna and shorting your antenna to a good ground, will protect you.

I know that there are those of us who subscribe to the belief that an "ungrounded" antenna is "transparent" to lightning. The theory there, is that

the antenna will not be considered a good path by lightning because it represents a very high impedance path. Some of us consider this arguement to be specious. Others think it has merit. I've seen evidence to suggest that it

has merit because its often been my "modus operandi."

I could be wrong. But i never had a yagi over 35 feet high. I'm presently working on buying a home where i may, for the first time in my life, have an opportunity to erect a tower. Possibly 60 ft. high or so. You can bet i'll install a first rate ground system if it materializes. And still disconnect

the antenna whenever its not in use in the shack.

"Lightning arresters", gas discharge tubes, mov's etc. are all properly looked at as quasi-protection in the event of induced voltages from nearby lightning activity, causing voltages and thus currents, to be induced in various conductors comming into your station.

NOTHING CAN PROTECT YOU FROM A DIRECT LIGHTNING HIT except a high quality, very expensive, very extensive ground system. It must be made of conductors so

heavy that they can withstand 10,000-20,000 Of current.

Its kindof like a reverse polarity diode in a piece of gear. It has to have

a current rateing sufficient to blow the fuse, in the event of reverse polarity, before the destructive current blows the diode apart and removes the

clamping effect of the diode, thus destroying the equipment.

This subject is not something that one person is likely to have the last word on. Many can lend their two cents worth and the astute person will take it all into consideretion.

On a lighter note, i've often wondered why we don't build "huge" Leydan Jars

and invite lightning to charge them and then we "bleed off" what we need to do

useful work with the resulting charge.

73 de Roy Lincoln WA4DOU Wilson area ,N.C.

"Bruce" <Bruce2@prodigy.net> wrote:

Thought this might help all those that are out there using ladder line or end fed random wire antennas.

ICE or Industrial Comm. Engineers make lightening arrestors primarily for commerical applications including commercial radio stations. HOWEVER, they also make units that can be used for ham radio. Interestingly, they MAKE AN ARRESTOR FOR BALANCED LADDER LINE AND ANOTHERONE FOR A SINGLE WIRE END FED ANTENNA.

It has been my experience that most hams are unaware that there is a arrestor made for these types of antenna. (Many of us remember when all we could find was a knife switch that took the antenna to ground when not in use.) These arrestors also constantly drain static electron charges from the antenna once inserted in the line.

Thought someone might like to know.

The usual disclaimers apply. I have no interest in the company etc.etc.etc.

Just a ham of 47 years that thought I might help some of those looking for lightening protection when using balanced line or end fed antennas.

Bruce WB4WZL

-----  
Get free e-mail and a permanent address at <http://www.netaddress.com/?N=1>

-----  
Date: Tue, 6 Apr 1999 18:02:33 -0600  
From: "David Ek" <ekdave@earthlink.net>  
To: "QRP-L" <qrp-l@lehigh.edu>  
Cc: "Steve Galchutt" <n0tu@webaccess.net>  
Subject: [37490] FYBO pics on my web site  
Message-ID: <000501be8089\$f11df5e0\$6aa4fc9e@davidek>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Gang,

I finally got a few pics from FYBO '99 (N0TU & AB0GO) up on my web site:

<http://home.earthlink.net/~ekdave>

and follow the QRP Adventures link.

72 de Dave AB0GO

-----  
Date: Tue, 6 Apr 1999 19:19:42 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>  
Subject: [37491] Flower Station VE6EWM  
Message-ID: <Pine.LNX.3.95.990406191623.20462A-100000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Earl, VE6EWM, in Alberta is on 7.042, 0116Z for the Canadian QRP Spring Bouquet event...earn a colourful Certificate...fred, VE3FAL is also lurking around 40 mtr cw from Ontario...go get em!

...72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272  
A-1 Operator Club - 10/10# 944 - Regina, Saskatchewan. Canada

"QRP! How sweet it is!"

-----  
Date: Tue, 06 Apr 1999 21:24:30 -0400  
From: Richard Arland <k7sz@epix.net>  
To: qrp-1@lehigh.edu  
Subject: [37492] TR-22 QRP VHF Mods  
Message-ID: <370AB3CE.BD38882E@epix.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Several members of this list have replied to my original request for info on the power upgrade mod that was published by 73 magazine around the 1973 timeframe.

All agree that this mod required replacing the 2SC741 driver transistor (which is common in the TR-22, 22A & TR-2200A (TRIO/KENWOOD version)) with another device. The original article specified a Motorola HEP-75 which is no longer made.

I do not have any RF transistor specs available and therefore need a knowledgeable individual to provide me with a suitable substitute for the 2SC741, in order to get about 2+ watts out of the TR-22 series rigs.

Currently I have 2 TR-22s and 2 TR-2200As. I would like to upgrade the power in all 4 units to 2 watts output.

If anyone can help me out, please give me a private e-mail.

Tnx es 73 Rich K7SZ

-----  
Date: Tue, 6 Apr 1999 21:22:57 EDT  
From: PUNISHER3@aol.com  
To: qrp-1@lehigh.edu  
Subject: [37493] grounding a loop?  
Message-ID: <26e1672.243c0d71@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi. I've been reading some of these posts about grounding, and it got me thinking. In the posts, you guys were talking about radials on the antenna that would help (a tiny bit) with the grounding if your antenna got struck with lightning. Now, I've got a delta loop, which of course doesn't have radials, so how would a loop deal with lightning?

Thanks in advance,  
Ben - NW7DX  
Redmond, WA

-----  
Date: Tue, 06 Apr 1999 22:45:32 -0400  
From: S LYON <sslyon@worldnet.att.net>  
To: wlreed@viaduct.custom.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [37494] Re: Fw: Open wire spreaders  
Message-ID: <370AC6CC.26480C4A@worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

The most recent discussion of the STERBA CURTAIN was the ARRL ANT. BOOK, 17th ed. Take it from me... if you can get it 1/2 wave up (to bottom) you will DEFINITELY make an impression in whatever bi-direction you're pointed! My 15m job was an absolute delight w/QRP... until I had to move 8^(  
72  
-s-  
--

'Seab' Lyon - AA1MY  
Beacon NY USA FN-31  
QRP-L 574 ARCI 9253

-----  
Date: Tue, 6 Apr 1999 19:50:36 -0700 (MST)  
From: Joe Gervais <vole@primenet.com>  
To: qrp-l@Lehigh.EDU  
Subject: [37495] Summary Sheet for ARCI Spring QSO Party  
Message-ID: <199904070250.TAA15211@usr01.primenet.com>

Howdy Folks,

Well assuming I haven't totally screwed it up, I've appended

an ASCII-text summary sheet below for the QRP ARCI Spring QSO Party this weekend. Hopefully it'll make the scoring a little easier.

Now watch, since my application for 2xQRP WAS is in the mail (having FINALLY worked RI 2xQRP and received the QSL!), I'm gonna work a dozen QRPers in RI this weekend. :-)

Please keep an ear open for me! The kids will be asleep by 0200Z, so hope to be on for the night after that. Caffeine Patrol. :-)

NOTE: Use a "constant width" font to view the summary sheet, else things won't line up.

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix), Random QRP Critter

"If it ain't fun, you ain't doin' it right!" -The AZ ScQRPions

-----  
QRP ARCI Spring QSO Party Summary Sheet

Call Used: \_\_\_\_\_ Callsign(s) of Operator(s): \_\_\_\_\_

Category: \_\_\_\_\_ (Single- or Multi-Op)

Entry: \_\_\_\_\_ (All-Band, Single Band (specify), High Bands, Low Bands)

Station Location: \_\_\_\_\_

Rig(s): \_\_\_\_\_ Antenna(s): \_\_\_\_\_

Highest Power: \_\_\_\_\_ W Favorite Ice Cream: \_\_\_\_\_

STATE/PROVINCE/COUNTRY TOTALS	QSO POINTS
160M = ____	ARCI Member QSOs: ____ X 5 = ____
80M = ____	Non-Member QSOs:
40M = ____	Diff Continent: ____ X 4 = ____
20M = ____	Same Continent: ____ X 2 = ____

15M = ____	TOTAL QSO POINTS = _____
10M = ____	
6M = ____	Power Multiplier (Check one):
TOTAL = _____ (All SPCs per band)	Less than 250mW = X15 ____
	250mW - 1W = X10 ____
	1W - 5W = X7 ____
	Over 5W = X1 ____

FINAL SCORE = \_\_\_\_\_ X \_\_\_\_\_ X \_\_\_\_\_ = \_\_\_\_\_ Points  
                     QSO Pts           SPC Total       Pwr Multi

Comments:

:  
:  
:  
:

I have followed all competition rules as well as all regulations for amateur radio in my country. My report is correct and true to the best of my knowledge. I agree to be bound by the decisions of the contest committee.

Date \_\_\_\_\_ Signature \_\_\_\_\_ Call \_\_\_\_\_

-----  
 -----  
 Date: Tue, 06 Apr 1999 22:54:02 -0400  
 From: S LYON <sslyon@worldnet.att.net>  
 To: tedbeach@yahoo.com, qrp chat <qrp-l@Lehigh.EDU>  
 Subject: [37496] Re: Open wire spreaders -weedwacker  
 Message-ID: <370AC8CA.20F521AD@worldnet.att.net>  
 MIME-Version: 1.0  
 Content-Type: text/plain; charset=us-ascii  
 Content-Transfer-Encoding: 7bit  
 Content-Transfer-Encoding: 7bit

Hi Ted

I've really tried them all and found the nylon the LEAST time and trouble. Single-handed I can build 250' in a pleasant, leisurely afternoon. Also, the nylon has the least wind resistance and ice retention... important factors in the north country here. The hot melt comes in several varieties... the heavy-duty version has very good U/V and cold resistance. Smell?... what the hey...



72

-s-

--

'Seab' Lyon - AA1MY  
Beacon NY USA FN-31  
QRP-L 574 ARCI 9253

-----  
Date: Tue, 06 Apr 1999 23:27:28 -0400  
From: Pete Burbank <plburbank@kih.net>  
To: <qrp-l@Lehigh.EDU>  
Subject: [37497] Lightning protection  
Message-ID: <3.0.32.19990406232724.006d1c7c@kih.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Gang,  
Thanks to Bruce WB4WZL and Roy Lincoln for such a calm and intelligent discussion about grounding, lightning etc. I made some comments about "pulling the plug" in bad weather a few days ago and after considering some comments I think one should bear in mind that situations demand different solutions.

Commercial and public service stations are expected to stay on the air and survive hits whereas most ham stations are lower budget and most of us are on the air only a few hours a day. In that perspective I would rather spend money to get my children's teeth fixed than spend a couple K on a (hopefully) ironclad grounding system.

I may be wrong about this but I am guessing that most QRP ops don't have big towers and are better off in bad weather to chuck the feedlines out the window and get the rig loose from ground.

44 years on the air but I check the obits often to see if I'm listed.....72 Pete NV4V

-----  
Date: Tue, 6 Apr 1999 20:56:05 -0700 (PDT)  
From: herr@ridgecrest.ca.us (Michael Herr)  
To: qrp-l@lehigh.edu  
Subject: [37498] Re: Solar Station  
Message-ID: <v01530500b3300aec8d1e@[208.138.142.34]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>Hello Everyone,  
>  
> Does anyone on the list have their entire station  
>running off of batteries being charged by solar cells?

Hello Ron,

Yep, I've been 100% solar for the station since 1987 and has worked great. I use a 10 watt panel (ARCO is I recall right) and a RV deep cycle battery. The controller is homebrew and, so far, has worked well.

72

Mike WA6ARA

BTW - the shack, er home, is also passive solar heated as is the hot water.

-----  
Date: Tue, 6 Apr 1999 23:15:18 -0500 (CDT)  
From: maprath@prairienet.org (Mark A. Prather)  
To: qrp-l@Lehigh.edu  
Subject: [37499] Misc. for sale - spring cleaning.  
Message-ID: <199904070415.XAA05273@bluestem.prairienet.org>

Hello to the list. I have been doing some spring cleaning here, and posting the following to this list first.. Not 'exactly' QRP, but maybe items of interest to some on the list... Please feel free to contact me for further information... All items will go to best offer...

73,

Mark  
WB9HFK

Qt.	Item	Condition
3	Astatic T-UG9 Stands.	Good
3	Astatic D-104 Mic Heads	Don't seem to work
1	Turner SSB+2 Mic	Fair

1	Heathkit HD-1424 SWL Active Ant.	Good
2	Communications Spec. TS-32 Encoder/Decoder	Like new in package Never used.
1	Trans Com, Inc. 401 Tone Encoder for IC-2AT	New, never used.
1	G5RV Jr. Antenna	New, in package
1	ARRL Extra Study Guide (Passed the Extra with this!)	Like new.

Make an offer...

--

\* Mark A. Prather - WB9HFK           \* maprath@prairienet.org \*  
 \* QRP-L # 1159 \* QRP ARCI # 9472 \* mprather@halcomm.com   \*  
 \* Norcal # 2507   \*

-----  
 Date: Tue, 6 Apr 1999 21:31:55 -0700  
 From: "Bruce" <Bruce2@prodigy.net>  
 To: <plburbank@kih.net>  
 Cc: <qrp-l@lehigh.edu>  
 Subject: [37500] Re: Lightning protection  
 Message-ID: <000a01be80af\$92856380\$f7809cd1@default>  
 MIME-Version: 1.0  
 Content-Type: text/plain;  
           charset="iso-8859-1"  
 Content-Transfer-Encoding: 7bit  
 Content-Transfer-Encoding: 7bit

Pete,  
 Thanks for your kind comments.  
 I wish more dialogues on the reflector were calm, reflective and stayed on the subject of ham radio. I would like to point out that I have seen antennas take direct hits of lightning that were ground mounted. One doesn't need to have a tower to take a hit. Anyone that has an antenna of any size or height outside can be a target of lightening.  
 As I said the first trick is to "keep the fire outside of the house" so

throwing the transmission line outside and away from the house when it is not in use is at least a step in the right direction.

Bruce WB4WZL

-----Original Message-----

From: Pete Burbank <plburbank@kih.net>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Date: Tuesday, April 06, 1999 8:32 PM

Subject: Lightning protection

>Gang,

>Thanks to Bruce WB4WZL and Roy Lincoln for such a calm and

>intelligent discussion about grounding, lightning etc.

>I made some comments about "pulling the plug" in bad weather

>a few days ago and after considering some comments I think

>one should bear in mind that situations demand different solutions.

>

>Commercial and public service stations are expected to stay on

>the air and survive hits whereas most ham stations are lower

>budget and most of us are on the air only a few hours a day.

>In that perspective I would rather spend money to get my children's

>teeth fixed than spend a couple K on a (hopefully) ironclad

>grounding system.

>I may be wrong about this but I am guessing that most QRP ops

>don't have big towers and are better off in bad weather to

>chuck the feedlines out the window and get the rig loose from

>ground.

>44 years on the air but I check the obits often to see if I'm

>listed.....72 Pete NV4V

-----  
Date: Wed, 7 Apr 1999 02:50:20 -0400

From: "George Heron" <n2apb@erols.com>

To: "QRP-L" <qrp-l@Lehigh.EDU>, "NJ-QRP" <njqrp@njqrp.org>

Subject: [37501] April QRP Quarterly Contents

Message-ID: <01d501be80c3\$044a2a60\$b7cfaccf@herong>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 8bit

Content-Transfer-Encoding: 8bit

Well, another fabulous issue of QRP Quarterly is on its way to the printer ... containing another 92 pages of outstanding material contributed by a wide-ranging group from the QRP community.

Major features include a homebrew Differential GPS Receiver, extremely useful when going QRP in the field; and part 5 of LB's excellent series on Link Tuners.

This issue marks the return of Bob White's "Milliwattting" column, and a review of a wonderful new contest logging program from our friend WB2QAP.

Elecraft's K2 transceiver references abound these days, and our issue of QQ is keeping up with this hot topic.

Apologies are in order from the QQ managing editor (i.e., me!) for the later-than-usual publication this quarter. (We won't see the issues on the streets for another 4 weeks while at the printer.) Publishing of the Atlanticon and FDI proceedings, as well as handling a job change and moving of the family household to a new state all coincided with QQ editing this spring .... what a hectic life these days!

Hope you all enjoy this preview of QRP Quarterly!

72/73,

--George Heron, N2APB  
n2apb@amsat.org

=====

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-----  
Date: Wed, 7 Apr 1999 00:00:08 -0700  
From: "Radman" <radman@best.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [37502] Shearcutters for newbies -- On Sale !!  
Message-ID: <199904070657.XAA10708@proxy3.ba.best.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 8bit  
Content-Transfer-Encoding: 8bit

New-Folks,

If you're new to kit-building and ponder which tool is best for flushcutting component leads -- my favorites are on sale at Wassco! Try a pair of Xcelite EX170M diagonal shearcutters. On Sale for \$4.00 ea. These are precision

ground, razor-sharp diagonal cutters, specifically designed for lead trimming. They're great for working in tight spaces, have blue-cushioned foam hand grips and work like a champ. Wasco order number: BB-EX170M URL: <http://www.wassco.com/was/xcel shear.html>

And, with all the money you saved, pick up a couple rolls of Soder-Wick(R) ... On Sale !!

Soder-Wick , the original desoldering braid, provides the easiest, most cost-effective method of desoldering.  
URL: <http://www.wassco.com/was/soddesbraid1.html>

50-3-5 .080" Green  
BB-05-26804 Sale price: \$1.18

50-4-5 .110" Blue  
BB-05-26805 Sale price: \$1.32

Xcelite Flushcutters and two rolls of "Wick" for \$6.50 -- that's a heck of a deal !! :-)  
You can order by phone at: 1-619-679-8787

Standard disclaimers, etc... natch ;)

Happy building,

72 -- Conrad -- NN6CW

-----  
Date: Wed, 07 Apr 1999 10:04:21 +0200  
From: Paolo Sassoli <paolo.sassoli@italtel.it>  
To: "Qrp-1 (per messaggi)" <qrp-1@lehigh.edu>  
Subject: [37503] Mail response from Elecraft  
Message-ID: <370B1185.4AB3F8E9@italtel.it>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi to all.

I wonder if anyone out there tried to contact Elecraft by e-mail and got responses.

I need some informations and wrote to "radios@elecraft.com" (March, 26) and then to "erics@elecraft.com" (April, 1).

No responses from both.

Does anyone know the reason?

Thanks.

Paolo IK2LNH

-----  
Date: Wed, 7 Apr 1999 06:41:20 -0400 (EDT)  
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>  
To: George Heron <n2apb@erols.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [37504] Re: April QRP Quarterly Contents  
Message-ID: <Pine.GS0.4.10.9904070637490.13237-100000@moe.cas.utk.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

George,

If the issue is as good as the last, we can wait (even if we get impatient inside). With all you have done to make QRP happen in several arenas--and with FDIM coming--be sure to take a few milliseconds of absolute relaxation--possibly operating.

You have the thanks of all of us for your services and energies bestowed on QRP in all its forms.

-73-

LB, W4RNL

L. B. Cebik, W4RNL	/\	/\	*	/	/	/	(Off)	(423)	974-7215
1434 High Mesa Drive	/	/	/	----	/	---	(Hm)	(423)	938-6335
Knoxville, Tennessee	/\	\	\	/	/		(FAX)	(423)	974-3509
37938-4443 USA	/	\	\	\					cebik@utk.edu
QRP/ARCI 2572	G-QRP	7203	CQC	125	NEQRP	347	NORCAL	1111	MIQRP 1432
QCWA 13211	10-10	41159	FISTS	2600	NWQRP	401	scQRP	28	AK/QRP 343
ARRL Life:	Tech. & Edu.	Advisor	CW Ops	QRP Club	(VK)	476	ARS	411	
									<a href="http://web.utk.edu/~cebik/radio.html">http://web.utk.edu/~cebik/radio.html</a>

-----



Date: Wed, 07 Apr 1999 07:25:40 -0400  
From: Richard Arland <k7sz@epix.net>  
To: qrp-l@lehigh.edu  
Subject: [37505] TR-22 Power Mod - OOPS!  
Message-ID: <370B40B4.6BDA189F@epix.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Sorry about that....got the wrong schematic.

The original TR-22 used a 2SC-32(4) as a driver and a 2SC-730 as a PA.

The mod from 73 mag replaced the 2ASC-32(4) with a HEP-75.

Still wondering what to use as a replacement for the HEP-75, AND  
would this work to boost the power in the TR-2200A (which uses the  
2SC741 as a driver and the 2SC1479 as a PA).

Sorry about any confusion.

73 Rich K7SZ

-----  
Date: Tue, 6 Apr 1999 19:42:34 -0400  
From: "Harry T. Hurst, WA3PTG" <hhurst@delaware.infi.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [37506] QRP-L Rig  
Message-ID: <003a01be8087\$26e16ac0\$294b9ace@hhurst>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Whatever happened to it?

-----  
Date: Wed, 7 Apr 1999 07:45:19 -0400  
From: "Fishman, Clark [AMSTA-AR-FSF-I]" <cfishman@pica.army.mil>  
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>  
Subject: [37507] Tnx

Message-ID: <53EB67411602D211846900A0C9C7647A0323BF98@mail3.pica.army.mil>  
MIME-Version: 1.0  
Content-Type: text/plain

Tnx to all for ARCI info      WA2UNN

-----  
Date: Wed, 7 Apr 1999 07:46:05 -0400 (EDT)  
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>  
To: Bruce <Bruce2@prodigy.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [37508] Re: Lightning protection  
Message-ID: <Pine.GS0.4.10.9904070705030.14226-100000@moe.cas.utk.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Bruce,

Your two main safety points about lightning protection for the casual operator who does not need to be on the air during an electrical storm are well taken. Let me add a couple of supplementary notes to the ideas.

1. Total rig disconnection: Be certain that if you take this route (and it is the route I take), that there is no "secret" ground connection to the equipment via a ground buss, third wire in the mains, etc. A spike can do its damage simply by virtue of the momentary voltage differential between two points in the circuitry, and a ground conducted surge can set up a destructive differential between ground and sensitive circuitry parts that are otherwise disconnected. So if disconnection is the safety measure of choice, be certain that it is total--as if the gear were still in the shipping cartons.

2. Antenna lead disconnection: Instead of just tossing the antenna lead out the window and away from the house, let me suggest that you formalize the arrangement a bit. At a safe distance from the house, drive a ground rod in the soil and set up an alternative connection point for the feedline. This will bleed off static build-up and give your antenna a definite ground connection. In addition, you can add weather protections for the lead end, and also ensure that the lead ends are not mechanically battered by wind, etc. If you operate from the 2nd or higher story, you may have to give considerable thought to how this measure might be implemented. However, it can reduce the wear and tear on the feedline--and reduce any damage that might be caused by the line flailing in the wind.

My own procedure is to a. do a full AC disconnect when the rig is not in use, including antenna line disconnect, and b. move the lines outside from

their house entry point to a separate ground rod with a plate for both coax and parallel line connection--with the line shorted. I have set up my console so that the AC distribution to the equipment comes to a switched outlet--with both the hot and neutral sides switched. But at the end of a session, I pull one plug--and it is positioned where anyone else can pull it, in case I happen to become electrically bonded to the cases which then go hot. The antenna feedlines come to a plate where I disconnect the feedline, the rotor cable, and the ground buss in one 15 second post operating maneuver. The outdoor plate is similar, but is within range of the ground rod with its own plate.

I have also taken measures to ensure that the house electrical system is as safe as I can have it made, including checks every year of voltage differentials between the neutral and 3rd wire everywhere--which resulted in having the main box ground rod replaced once. There is a lot of "stuff" in the house not so easy to disconnect (wired in appliances), and their solid state controls are equally vulnerable. A main box surge protector is also a measure to consider. Bigger protectors tend to be a bit slower, so protection is not perfect, but they appear to take much of the protection load off the plug-in protection circuits I use with all electronics.

Since your aim (and my aim) is whole house-and-family protection, working through the options for protection everywhere in the house that may be vulnerable is a useful enterprise. With time, you may discover yourself adding further protections.

Do these measures work? A strike to a magnificent old tulip poplar on my back line destroyed the tree. The surges took out neighbor's appliances (evidence = the service trucks that came through the neighborhood over the next few days). I lost a segment in the readout of one old digital alarm clock. Also replaced a couple of surge protectors that gave their lives protecting more expensive stuff. (They also need checking periodically for evidence that they are still protecting as well as providing an outlet strip.)

Note the shift in emphasis from "radio" protection to whole home protection. That reflects my priorities and investments.

Hope this is useful as a starter.

-73-

LB, W4RNL

-----  
Date: Wed, 7 Apr 1999 05:45:44 -0600  
From: Neil Klagge <w0yse@juno.com>  
To: malman@world.std.com, qrp-l@Lehigh.EDU  
Subject: [37509] re: R7000 (was:Antenna comments please)  
Message-ID: <19990407.054841.-221257.1.w0yse@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Joel,

I have an R7000 mounted on my roof at 24' at bottom end, 48' at top. It is GREAT for dx and not so great for short-haul due to low take-off angle of course. It is designed to work at 8' on a pole mast in the ground as well. I still use a wire (end fed 67' or 130') in stealth mode for three reasons: 1. The bandwidth is a bit too narrow on 40 (and somewhat on 20) to cover all of cw and ssb. 2. The wire is louder on both send and rx for short haul work. 3. I didnt get the 80 meter kit for the vertical so I need the 130' wire for 75-80 meters.

Good luck,

72 , Neil, w0yse, a QRP-L and GQRP-L digest reader.

-----  
You don't need to buy Internet access to use free Internet e-mail.  
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>  
or call Juno at (800) 654-JUNO [654-5866]

-----  
Date: Wed, 07 Apr 1999 09:01:18 +0000  
From: Michael Neverdosky <MichaelN@cycat.com>  
To: qrp-l mailing list <qrp-l@Lehigh.edu>  
Subject: [37510] Re: Lightning protection  
Message-ID: <370B10CE.267F255A@cycat.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Lots of good lightning info going around.  
I must add that it is important to remember the phone lines.

When I got hit by lightning (me, not my radios) it was a side

flash of a hit on a tree next door, and came in through the phone line.

You cannot just ground the phone lines, if you expect to keep phone service. :-))

You can disconnect the phone lines from everything important and have the end close to something grounded and away from people and equipment.

Here in Florida, ground conductivity is so poor that it takes LOTS of DEEP ground rods to get a good ground for lightning protection. Commercial operators often drive rods as deep as 150' to 200'+ and will have one or more rods at each tower, antenna, shed, and at each corner of a building.

How many people have measured the actual ground resistance of their ground system?

michael N6CHV

cebik@utkux.utcc.utk.edu wrote:

>  
> Bruce,  
>  
> Your two main safety points about lightning protection for the casual  
> operator who does not need to be on the air during an electrical storm are  
> well taken. Let me add a couple of supplementary notes to the ideas.

-----

Date: Wed, 7 Apr 1999 15:10:57 +0200  
From: "David Reid" <dareid@Synopsys.COM>  
To: MichaelN@cycat.com  
Cc: qrp-l@lehigh.edu  
Subject: [37511] Re: Lightning protection  
Message-ID: <199904071311.PAA22147@goofy.gr05.synopsys.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-Transfer-Encoding: 7BIT

Michael,

Hi, thought you might like to know that in the RSGB magazine RadCom about 3 years ago, there was a good article on how to measure your ground conductivity using ground stakes and a 'megger'... for my antenna installation I use a home made

thermocouple ammetre and a digital multimeter... this is good for making ground wires resonant - but doesn't help with lightening protection...

The article is on my website - with loads of other antenna articles...

at:

<http://ourworld.compuserve.com/homepages/drcp/homepage.htm>  
(follow the link to 'Articles')

There is also my extensive article on HF beams using Delta-Matching...(which has been submitted to RadCom for publication)

73/72 de Dave PA3HBB / G0BZF

(ground conductivity in Holland is no problem the whole country is just about below sea-level HI)

Date sent: Wed, 07 Apr 1999 09:01:18 +0000  
Send reply to: MichaelN@cycat.com

> Lots of good lightning info going around.  
> I must add that it is important to remember the phone lines.  
>  
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> flash of a hit on a tree next door, and came in through the  
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>

-----  
Date: Wed, 7 Apr 1999 08:18:30 -0500 (EST)  
From: bkobie@webtv.net (patrick obrien)  
To: qrp-l@lehigh.edu  
Subject: [37512] trade  
Message-ID: <6569-370B5B26-336@mailtod-141.iap.bryant.webtv.net>  
Content-Disposition: Inline  
Content-Type: Text/Plain; Charset=US-ASCII  
Content-Transfer-Encoding: 7Bit  
MIME-Version: 1.0 (WebTV)  
Content-Transfer-Encoding: 7Bit

mint norcal 40a  
for  
80 mtr qrp xcvr  
or  
sale..105 plus s/h 5  
qsl k8len/pat

-----  
Date: Wed, 7 Apr 1999 08:20:29 -0500  
From: "Nathan Odle" <nodle01@mail.coin.missouri.edu>  
To: <dareid@Synopsys.COM>, <qrp-l@lehigh.edu>  
Subject: [37513] RE: Lightning protection  
Message-ID: <000101be80f9\$692e3300\$8dc9ce80@missouri.edu>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

FYI: One of these "meggers" is on eBay right now...

73,  
Nathan  
KB0NNV

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of David Reid

Sent: Wednesday, April 07, 1999 8:11 AM

To: Low Power Amateur Radio Discussion

Subject: Re: Lightning protection

Michael,

Hi, thought you might like to know that in the RSGB magazine RadCom about 3 years ago, there was a good article on how to measure your ground conductivity using ground stakes and a 'megger'... for my antenna installation I use a home made thermocouple ammetre and a digital multimeter... this is good for making ground wires resonant - but doesn't help with lightening protection...

The article is on my website - with loads of other antenna articles...

at:

<http://ourworld.compuserve.com/homepages/drcp/homepage.htm>

(follow the link to 'Articles')

There is also my extensive article on HF beams using Delta-Matching...(which has been submitted to RadCom for publication)

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Send reply to: MichaelN@cycat.com

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> have the end close to something grounded and away from people



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>  
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> cebik@utkux.utcc.utk.edu wrote:  
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> > Your two main safety points about lightning protection for the casual  
> > operator who does not need to be on the air during an electrical storm  
are  
> > well taken. Let me add a couple of supplementary notes to the ideas.  
>

-----  
Date: Wed, 07 Apr 1999 07:13:26 -0700  
From: Bill Jones <kd7s@psnw.com>  
To: hhurst@delaware.infi.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [37514] Re: QRP-L Rig  
Message-ID: <370B6806.2C5B5E0B@psnw.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Well folks, I've got good news and I've got bad news.

The good news is that the MINI-L project is still alive and well. I have been building, testing and evaluating circuits as time permits.

The bad news is that there have been m-a-n-y other things in my life that have taken precedence over building new rigs. I have been trying to put ham radio into perspective

as a hobby and not a total, all consuming way of life.

Gentlemen, the MINI-L will become a reality and it will be given to members of the QRP society. It's just not going to happen nearly as quickly as many of us (myself included) would have liked. For that I am sorry.

"Harry T. Hurst, WA3PTG" wrote:

> Whatever happened to it?

--

=====  
Bill Jones - KD7S <><  
Sanger, California  
<http://www.psnw.com/~kd7s>  
=====

-----  
Date: Wed, 7 Apr 1999 09:17:23 -0500  
From: john d langridge <kb5njd@juno.com>  
To: qrp-l@Lehigh.EDU  
Subject: [37515] For sale  
Message-ID: <19990407.091724.-827053.113.KB5NJD@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

After spring cleaning, I have the following items for sale:

MFJ 9020 20 meter QRP. Nice receiver, with keyer and filter \$80

Unfinshed 38 special -- 95 percent complete, I just never bought the extra stuff to finish it \$20

Ameritron RCS-4 remote coax switch -- no control line needed. 1 month old.. 2weeks of use... did not meet my needs, but in mint condition \$100

For any info, email me direct.

Thanks and 73,

KB5NJD@juno.com

John Langridge, KB5NJD

QRP-L member #1921  
32.642 N 96.955 W Dallas County

-----  
Date: Wed, 07 Apr 1999 10:36:38 -0400  
From: Tom M <tjmc@erols.com>  
To: QRP-L <qrp-l@lehigh.edu>  
Subject: [37516] Looking for Gent from Atlanticon  
Message-ID: <370B6D76.643DB312@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Got home from Atlanticon, put toys away.... lost note pad!

Looking for the gent From Lawrence, NY with the Hi-Power.

I gave you my email/call but only had your first name/ call which was in above pad.

If still interested, contact me plse.

72/3  
Tom AA2VK

-----  
Date: Wed, 07 Apr 1999 09:33:52 -0500  
From: "Ed Manuel, N5EM" <n5em@flash.net>  
To: qrp-l@lehigh.edu  
Subject: [37517] Re: QRP-L Rig  
Message-ID: <3.0.5.32.19990407093352.009699d0@pop.flash.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 07:13 AM 4/7/99 -0700, you wrote:  
>The bad news is that there have been m-a-n-y other things  
>in my life that have taken precedence over building new  
>rigs. I have been trying to put ham radio into perspective  
>as a hobby and not a total, all consuming way of life.

Dang-it. One more dedicated QRPer falls to reality. We know how it goes, Bill. I have my R/S breadboards ready when you are.

Ed, N5EM

Ed Manuel, N5EM  
Houston, Texas

n5em@amsat.org  
atv@cq-vhf.com

-----  
Date: Wed, 7 Apr 1999 10:44:46 EDT  
From: Jkn1olo@aol.com  
To: aa5yx@juno.com, qrp-1@lehigh.edu  
Subject: [37518] Re: 10m FM activity?  
Message-ID: <478cecd2.243cc95e@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

In a message dated 4/5/99 7:38:16 PM Eastern Daylight Time, aa5yx@juno.com writes:

<< I've been reading lots of posts to the list about the great conditions on 10m but they all refer to SSB or CW activity. I have a handheld scanner (PRO-51) that I programmed to scan from 29.6 to 29.7 Mhz and in the week that's passed since I started listening, I've heard almost nothing. >>

Ok, so I use an IC706, so shoot me :-> I have been active on 10FM since the band came back up in March. I've been using simplex as well as some of the repeaters including the Dallas machine (boy, what a great toy!). My thought is that maybe the the scanner you are using needs more antenna or is not sensitive enough or local CB pirates are killing the sensitivity. Whatever the case the activiy is there. Just get on and call CQ.

73

John  
N10LO

-----  
Date: Wed, 07 Apr 1999 11:03:51 +0000  
From: Michael Neverdosky <MichaelN@cycat.com>

To: qrp-l mailing list <qrp-l@Lehigh.edu>  
Subject: [37519] Re: Lightning protection  
Message-ID: <370B2D87.2F2173BE@cycat.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Another good source is AEMC Instruments,  
<http://www.aemc.com/>

They have good information on the web site and will also send  
free information by snail mail.

The problem here in Florida is not usually a shortage of water,  
but a shortage of minerals in the soil. Just getting the ground rod  
into water doesn't mean you have a good ground here.

If you are on the coast and your ground goes into salt water then  
you have a good ground, but inland even wet soil is a very  
poor conductor.

An interesting side note, even undergrounds electrical service is not safe  
from lightning. A strike will often destroy the underground wiring, even  
to the point that the wires are blown out of the ground.  
Underground electrical service does produce less electrical noise and it  
less of an electrocution hazard though. There is still a risk of  
electrocution  
in the case of leakage. Not too long ago a police horse was killed by  
leakage in an electrical service.

michael N6CHV

dareid@synopsys.com wrote:

>  
> Michael,  
>  
> Hi, thought you might like to know that in the RSGB magazine  
> RadCom about 3 years ago, there was a good article on how to  
> measure your ground conductivity using ground stakes and a  
> 'megger'... for my antenna installation I use a home made  
> thermocouple ammetre and a digital multimeter... this is good for  
> making ground wires resonant - but doesn't help with lightening  
> protection...

-----

Date: Wed, 7 Apr 1999 15:07:24 +0200

From: "Hans =?ISO-8859-1?Q?Sundstr=F6m"?= <hans.sundstrom@telia.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [37520] NC 20  
Message-ID: <199904071506.RAA24089@d1o22.telia.com>

Well - my NC 20 is up and running. Very good reports from everyone.  
Built without any problems whatsoever. Not one single little thing even  
close to a problem.  
Great kit, works great, nice RX, nice TX. some mods done, incl the AGC,  
works fine.  
Just a compliment to everyone involved in the project, and thanks again for  
all your work.

One of the mods I have done is changing the LF op amp to one with less  
noise. I used the Burr Brown OPA2604A, normally used in hifi equipment. Not  
very cheap, but very very good. I felt it made a difference.

mni 73 to a great group of radio amateurs

Hans / SM4ATJ

-----  
Date: Wed, 07 Apr 1999 12:13:46 -0400  
From: Steve <smann@advi.net>  
To: qrp-1@lehigh.edu  
Subject: [37521] who had the double needle meters for sale?  
Message-ID: <370B843A.7229@advi.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Recently someone posted double needle swr/wattmeter meters movements for  
sale.

Are they all gone?

Steve, N4EY  
Toast, NC

-----  
Date: Wed, 7 Apr 1999 08:26:41 -0700 (PDT)  
From: Ron Stark <ku7y@dri.edu>

To: George Heron <n2apb@erols.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [37522] Re: April QRP Quarterly Contents  
Message-ID: <Pine.SOL.3.96.990407081347.3200D-100000@vortex>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

George,

Wow, what a great looking collection of articles!

For those of you who have never done something like edit a magazine, believe this..... the amount of time involved is BIG! George has made some major changes to the process and now has the whole QQ in digital form. This required a major effort on his part.

While taking over, learning the contacts, improving the process, George has also grown the magazine with even more good material.

Throw in some of the other events he is involved with and you begin to get a feeling for the amount of time he spends for the benefit of QRP/QRPers.

I'm also sure that he will soon be back on schedule time wise. But please hang in there....the wait will be well worth it!

Thanks George.

73, Ron,        SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

-----  
Date: Wed, 7 Apr 1999 11:33:59 -0400  
From: "Hartwell, Martin E (Marty)" <mhartwell@lucent.com>  
To: qrp-1@Lehigh.EDU  
Subject: [37523] Some thoughts and three rigs for sale  
Message-ID: <293FEF237633D211882D0000C0F9B1F44C7A1E@OH0012EXCH006U>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"

Hello all

Today I received about 6 messages asking about the SWL40 rig in my post of yesterday. One email questioning the sst30.

I will answer all of the mail messages in order received tonight. The messages have a time stamp on them and will take them in that order. So far these emails are all questions, so I will answer the questions to the best of my ability and the first one of these to say they want the rig will get it. If that falls through I will retry. I would say from past experience that most likely one of these people will take this rig. If I receive an email today saying they want the SWL40 with no questions then I guess they would get it.

So far left is the SWL30 with the built in keyer. However I may get more email today on that. I expect these first mails are from the direct receivers of the posts and not the digest readers.

Marty  
Kd8bj Columbus OH

Guess I should put together a sig file for these posts.

-----  
Date: Wed, 7 Apr 1999 10:55:41 -0500  
From: john d langridge <kb5njd@juno.com>  
To: qrp-l@Lehigh.EDU  
Subject: [37524] Items that are sold  
Message-ID: <19990407.105549.-827053.120.KB5NJD@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Well, I have had an overwhelming response for the items listed earlier this morning.

so far, if all goes as planned, the 38 special is sold. same for the MFJ 9020, once we get the international currency thing worked out. If for some reason either of these fall through, I will contact the next person in line.

I still have the Remote wireless Coax switch if anyone is interested.



Thanks for all the interest,

John Langridge, KB5NJD  
QRP-L member #1921  
32.642 N 96.955 W Dallas County

-----  
Date: Wed, 7 Apr 1999 12:36:50 -0400  
From: "S. M. Whitehouse" <ke4yh@email.msn.com>  
To: "Low Power" <qrp-l@Lehigh.EDU>  
Subject: [37525] Interesting ditty  
Message-ID: <000301be8115\$d77ad400\$f8c02599@default>

Received the May issue of Popular Mechanics today.  
Interesting item from the May 1909 issue concerning  
silencers for firearms. How they're made and work.  
Inventor of silencer?.....Hiram Maxim! Just one of his  
many, many accomplishments.

72  
Stew KE4YH  
Dunedin, Florida

-----  
Date: Wed, 07 Apr 1999 12:55:14 -0400  
From: "Ed Hare, W1RFI" <w1rfi@arrl.net>  
To: qrp-l@lehigh.edu  
Cc: sford@arrl.org  
Subject: [37526] Re: April QRP Quarterly Contents  
Message-ID: <370B8DF2.1480@arrl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Ron Stark wrote:

> Wow, what a great looking collection of articles!

Yes, indeed. I bet the QST Editor is a bit jealous of all those neat

construction articles. :-)

73,  
Ed, W1RFI  
ARRL Lab

-----  
Date: Wed, 07 Apr 1999 12:01:19 -0500  
From: James Parsons <k5rov@wcc.net>  
To: qrp-l@lehigh.edu  
Subject: [37527] Gear for sale.  
Message-ID: <370B8F5F.DC85C6EB@wcc.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

I have a very nice Kenwood TS-930s/AT for sale. I have used this rig for CW Qrp many times. It has a carrier control on the front that will tune down to Zero output. I have set it to five watts and made many contacts with it. I do not have a wattmeter that will go below five watts. This unit works fine, has great QSK (break-in keying), and everything on it works. It was recently checked over by AVVID in Dallas. A great rig with built in power supply and antenna tuner. It covers all bands from 160 to 10 meters. It has CW VBT and SSB slope tuning, and audio peaking and notch filter. Includes manual and original inner box. Price is 625 dollars plus shipping.

I also have an SP-930 speaker that would be a perfect ten except for a few very light scratches on the left side. I do not have the original box for it. Price is 90 dollars plus shipping, sold only after the TS-930s/AT is sold.

An OHR 100A QRP rig for 40 meters. This rig is only a few months old and works perfectly. No mods or changes. It was tuned at the factory. Comes with Manual. Price is 90 dollars plus shipping.

Jim, K5ROV  
San Angelo, TX

--

James (Jim) Parsons, K5ROV    USAF, Ret. Ham for 58 yrs.  
k5rov@wcc.net    ICQ-17012707    QCWA, NWQRP, Fists, ARRL  
EX: W1RLA, K5FBB, K4FEO, SV0WN (CRETE), SV0WN (RHODES),  
DL4NC, DL4JP, KA2FC (JAPAN), KA2JP (JAPAN).

JOHN 3:16

-----  
Date: Wed, 7 Apr 1999 12:36:26 -0500  
From: "JUNIUS B FOX" <w5hir@gte.net>  
To: <qrp-1@lehigh.edu>  
Subject: [37528] Changing E-MAIL address  
Message-ID: <000101be811d\$2f7230c0\$040000005@w5hir.gte.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

For all of you who have my e-mail address on file, please make a note.  
My new e-mail address will be : w5hir@ghg.net

soon, I will contact the qrp-1 majordomo, and unsubscribe from qrp-1,  
and then resubscribe under the new e-mail address.

I know it's a bother,. but I am trying to cover all bases

Foxy  
Five out of four people have trouble with fractions

-----  
Date: Wed, 7 Apr 1999 10:47:15 -0700  
From: dave\_epps@juno.com  
To: qrp-1@lehigh.edu  
Subject: [37529] Kachina qrp?  
Message-ID: <19990407.112750.-297683.2.dave\_epps@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Anyone running a Kachina on qrp? Will it even run low power?  
Recently got a ten-tec RX-320 (pc rcvr) and am amazed at how well it  
works.  
It has stirred my interest in the Kachina.  
dave ab5pc fresno, ca.

-----  
You don't need to buy Internet access to use free Internet e-mail.  
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>

or call Juno at (800) 654-JUNO [654-5866]

-----  
Date: Wed, 7 Apr 1999 12:36:42 -0600  
From: Brad Mugleston <bmug@gwl.com>  
To: "'qrp-l'" <qrp-l@lehigh.edu>  
Subject: [37530] Digest requests  
Message-ID: <01BE80F3.4C8140E0.bmug@gwl.com>

To the POWERS (qrp levels of course) that be. Would it be possible to build the digest so that the topics are grouped together and in oldest to newest (top to bottom) order? This way I could read one topic at a time, follow the story and skip all the ones that just make me jealous (Dayton Weather for example).

Thanks

de KI00T, Brad

-----  
Date: Wed, 7 Apr 1999 14:38:13 EDT  
From: Robsparks@aol.com  
To: qrp-l@lehigh.edu  
Subject: [37531] AR QRP 40m Net Tonight!  
Message-ID: <3c541e74.243d0015@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

AR-QRP 40 m Net Wednesday Night

The AR-QRP 40 m net is tonight, Wednesday, at 0130Z at 7.042 MHz. Bob, AB5ZD is NCS and will be calling "QST AR QRP NET de NQ5RP PSE QNI". (Note the use of our new club call!) At that time, please send your full call. When I copy it, I will return your call and AS (stand by) while more call in. When I have the list, I will start at the top and go down the list for reports and comments. If you are trying a new rig or antenna, tell us about it! Try to keep it short, though, especially if we have a long list! This is a fun, informal net. It is a low hassle way to learn how to check into a net, and you don't need to be a member of the AR-QRP Club to check in.

72,

Bob AB5ZD

-----  
Date: Wed, 7 Apr 1999 14:59:51 -0400 (EDT)  
From: Bob Patten <n4bp@bc.seflin.org>  
To: QRP-L Reflector <qrp-l@lehigh.edu>  
Subject: [37532] Need Index Labs Contact  
Message-ID: <Pine.3.89.9904071459.B8510-01000000@bc.seflin.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Does anyone have phone number, e-mail address, or web page URL for Index Laboratories? Looking to pick someone's brain for suggestions on repairing a dead QRP Plus... The manual lists a WA address, but no other contact information.

73,  
, ' ' ',  
Bob Patten, N4BP ( 0 0 ) Plantation, FL  
-----o00o-( )-o00-----

E-Mail: n4bp@bc.seflin.org  
Web Page: <http://wg104a.wh.uni-stuttgart.de/~n4bp>  
Brass Pounder BBS: (954) 472-7715

-----  
Date: Wed, 7 Apr 1999 12:07:00 -0700  
From: "Barry L. Geipel - AD6HR" <bgeipel@primenet.com>  
To: "QRP-L" <qrp-l@Lehigh.EDU>  
Subject: [37533] Need help debugging 38 Special  
Message-ID: <199904071902.MAA15504@newspaper.cwi.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi all,

I just finished my 38 special. I built it stock + the tick keyer mod.

The rig fires up okay, but I am only getting about 2Khz tuning range (10.117-10.119) I traced through the oscillator section and can find nothing wrong. I tuned up a general coverage receiver and found the oscillator correctly around 22.118

with the same tuning range (22.117-22.119).

I am using a cheap radio shack 100K audio taper pot. Could that be my problem?

Any help is appreciated!

Thanks in advance

72

Barry - AD6HR

--

-----  
Barry L. Geipel (AD6HR) ||  
Email:bgeipel@primenet.com || Lacking a muse, my mauser  
NRA HMGS-PSW ARRL || must be my thunderbolt  
QRP-L #1653 ||  
<http://www.primenet.com/~bgeipel/barry.html>  
-----

Date: Wed, 7 Apr 1999 12:18:01 -0700  
From: "Bruce" <Bruce2@prodigy.net>  
To: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>  
Cc: <qrp-l@lehigh.edu>  
Subject: [37534] Re: Lightning protection  
Message-ID: <002b01be812b\$5beeb520\$9b809cd1@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

LB,

We have almost the exact same set up. I may have more electrical radials and ground rods in the ground otherwise we are about the same.

My pervious posts were not a complete work on "how to ground ones station against lightning" but rather just various notes on the subject.

I too ground to a plate all transmission lines, rotor lines etc. when not in use. The plate is right on the earth and is connected to many hundreds of feet of copper piping that has been laid 18" into the earth-every -16 feet along this piping is an driven 8 foot grounding rod. All together a large ground counterpoise-somewhere for all those electrons to shunt themselves to the earth proper. The ditch itself is doped with ion producing salts. My shack is in the basement so a to decrease magnetic coupling. I too pull the ac plug on everything when the shack is not is use.

My original post was to just let others know that there are "arrestors" made for both balanced line and single line (end fed wires). Many seemed to think that these were only made for use with coax. At least these will bleed off the static electrons.

Thanks for your comments. You always add so much to any antenna related problem. All this information should be of benefit to someone out there.

Bruce WB4WZL

-----Original Message-----

From: L. B. Cebik <cebik@utkux.utcc.utk.edu>

To: Bruce <Bruce2@prodigy.net>

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Date: Wednesday, April 07, 1999 5:15 AM

Subject: Re: Lightning protection

>Bruce,

>

>Your two main safety points about lightning protection for the casual  
>operator who does not need to be on the air during an electrical storm are  
>well taken. Let me add a couple of supplementary notes to the ideas.

>

>1. Total rig disconnection: Be certain that if you take this route (and  
>it is the route I take), that there is no "secret" ground connection to  
>the equipment via a ground buss, third wire in the mains, etc. A spike  
>can do its damage simply by virtue of the momentary voltage differential  
>between two points in the circuitry, and a ground conducted surge can set  
>up a destructive differential between ground and sensitive circuitry parts  
>that are otherwise disconnected. So if disconnection is the safety  
>measure of choice, be certain that it is total--as if the gear were still  
>in the shipping cartons.

>

>2. Antenna lead disconnection: Instead of just tossing the antenna lead  
>out the window and away from the house, let me suggest that you formalize  
>the arrangement a bit. At a safe distance from the house, drive a ground  
>rod in the soil and set up an alternative connection point for the  
>feedline. This will bleed off static build-up and give your antenna a  
>definite ground connection. In addition, you can add weather protections  
>for the lead end, and also ensure that the lead ends are not mechanically  
>battered by wind, etc. If you operate from the 2nd or higher story, you  
>may have to give considerable thought to how this measure might be  
>implemented. However, it can reduce the wear and tear on the  
>feedline--and reduce any damage that might be caused by the line flailing  
>in the wind.

>

>My own procedure is to a. do a full AC disconnect when the rig is not in

>use, including antenna line disconnect, and b. move the lines outside from  
>their house entry point to a separate ground rod with a plate for both  
>coax and parallel line connection--with the line shorted. I have set up  
>my console so that the AC distribution to the equipment comes to a  
>switched outlet--with both the hot and neutral sides switched. But at the  
>end of a session, I pull one plug--and it is positioned where anyone else  
>can pull it, in case I happen to become electrically bonded to the cases  
>which then go hot. The antenna feedlines come to a plate where I  
>disconnect the feedline, the rotor cable, and the ground buss in one 15  
>second post operating maneuver. The outdoor plate is similar, but is  
>within range of the ground rod with its own plate.

>

>I have also taken measures to ensure that the house electrical system is  
>as safe as I can have it made, including checks every year of voltage  
>differentials between the neutral and 3rd wire everywhere--which resulted  
>in having the main box ground rod replaced once. There is a lot of  
>"stuff" in the house not so easy to disconnect (wired in appliances), and  
>their solid state controls are equally vulnerable. A main box surge  
>protector is also a measure to consider. Bigger protectors tend to be a  
>bit slower, so protection is not perfect, but they appear to take much of  
>the protection load off the plug-in protection circuits I use with all  
>electronics.

>

>Since your aim (and my aim) is whole house-and-family protection, working  
>through the options for protection everywhere in the house that may be  
>vulnerable is a useful enterprise. With time, you may discover yourself  
>adding further protections.

>

>Do these measures work? A strike to a magnificent old tulip poplar on my  
>back line destroyed the tree. The surges took out neighbor's appliances  
>(evidence = the service trucks that came through the neighborhood over the  
>next few days). I lost a segment in the readout of one old digital alarm  
>clock. Also replaced a couple of surge protectors that gave their lives  
>protecting more expensive stuff. (They also need checking periodically  
>for evidence that they are still protecting as well as providing an outlet  
>strip.)

>

>Note the shift in emphasis from "radio" protection to whole home  
>protection. That reflects my priorities and investments.

>

>Hope this is useful as a starter.

>

>-73-

>

>LB, W4RNL

>

>

>



-----  
Date: Wed, 7 Apr 1999 14:17:31 -0500 (CDT)  
From: Jim Glover <psykey@okcforum.org>  
To: qrp-1@lehigh.edu, homebrew@qth.net, glowbugs@piobaire.mines.uidaho.edu, okcham@okcforum.org  
Subject: [37535] Hardware question  
Message-ID: <199904071917.0AA29881@okcforum.org>  
Content-Type: text

I'm trying to make a shaft for a variable capacitor (for my Pixie QRP project), so I bought a 4-foot section of aluminum rod (thinking it would be useful for all kinds of shaft needs in the future). The problem is, it turns out that this aluminum rod is just ever so slightly larger than its nominal (treacherous word sometimes!) 1/4" diameter... just far enough out of bounds that standard size knobs won't fit on it.

So... does anyone have any recommendations about how to slightly reduce the diameter of a 1/2" or so section of this aluminum rod, as needed? (The only tool I have that strikes me as possibly useful for this is a power drill. I wonder if that could be used as a lathe somehow to turn the diameter down slightly. Would something like sandpaper do it?)

--Jim WB5UDE

-----  
Date: Wed, 7 Apr 1999 15:25:13 -0400  
From: Sam Billingsley <SBillingsley@usaninc.com>  
To: "Qrp1\_Submit (E-mail)" <qrp-1@Lehigh.EDU>  
Subject: [37536] Parking Lot Portable Vertical (PLPV) Extended to 30 mteres  
Message-ID: <21E06269B00ED111BE9B00805F6D0FA3797863@MAILSERVER1>  
MIME-Version: 1.0  
Content-Type: text/plain

The PLPV was already working FB on 20/15/10 but I wanted to extend it to at least 30/40 mtrs. 40 mtrs for contests and 30 mtrs for fun.

So here's the latest. The 30 mtr section adds about 8 ft to each radial (2) and a coil above the 20 mtr section and about 1.5 ft above the coil . (The pole being ~20 ft helps here) The inductance is a one inch diameter miniductor about 3-4 inches long and measures about 19 uH. I happen to have it in the junk box. I was planning to use a drug store pill bottle and some enamelled wire but the

30 mtr coil just happened to work as is. This is still experimental.  
Your mileage may vary.

So with that in mind the 40 mtr coil is going to be bigger and the radials a little longer.

#### Current SWR Measurements vs Frequency

SWR	30mtr	20mtr	15mtr	10mtr
2	9.82	13.65	20.3	
1.7	9.89	13.7	20.5	27.9
1.5	9.96	13.8	20.6	28.2
1.2	10.03	13.9	20.8	28.5
1:1	10.10	14.05	20.98	28.7
1.2	10.16	14.13	21.15	29.0
1.5	10.22	14.25	21.35	29.3
1.7	10.3	14.37	21.6	29.6
2		14.4		29.95

For more details about construction of the PLPV (antenna and portable stand) check my web page.

-----  
Date: Wed, 7 Apr 1999 12:36:17 -0700  
From: "Radman" <radman@best.com>  
To: <n4bp@bc.seflin.org>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [37537] Re: Need Index Labs Contact  
Message-ID: <199904071934.MAA14636@proxy4.ba.best.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Bob et al,

My recollection is that Bruce Franklin, designer of the Index Labs QRP+, made arrangements with Stan Yarema -- K7SY, Seattle, WA to handle all support issues for the Index Labs rigs. Stan's phone number is: 206-285-8941 for support/parts, etc. Sorry, I don't have an email for Stan.

Hope this helps,

72 - Conrad Weiss - NN6CW

\*\*\*\*\*

Does anyone have phone number, e-mail address, or web page URL for Index Laboratories? Looking to pick someone's brain for suggestions on repairing a dead QRP Plus... The manual lists a WA address, but no other contact information.

73,

Bob Patten, N4BP

-----

Date: Wed, 07 Apr 1999 13:40:56 -0600  
From: Bruce Kizerian <kizerian@ced.utah.edu>  
To: psykey@okcforum.org  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [37538] Re: Hardware question  
Message-ID: <370BB4C7.25A7F1FE@ced.utah.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Jim

You've already figured it out. Unless it is way oversize--say .025", a drill and sandpaper will do the job. Wrap the paper around the rod, turn on the drill, and move the sandpaper up and down in even strokes--a poor man's lathe. Good luck.

Bruce kk7zz

-----

Date: Wed, 07 Apr 1999 15:40:10 -0400  
From: Thomas Jennings <jennings@eng14.rochny.uspra.abb.com>

To: SBillingsley@usaninc.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [37539] Re: Parking Lot Portable Vertical (PLPV) Extended to 30 mteres  
Message-ID: <370BB49A.700D86E7@eng14.rochny.uspra.abb.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Sam Billingsley wrote:

>  
>  
> For more details about construction of the PLPV (antenna and portable stand)  
> check my web page.

Sam,  
What is the url?

Thanks es 73

Tom, kv2x

-----  
Date: Wed, 7 Apr 1999 15:52:15 -0400  
From: Sam Billingsley <SBillingsley@usaninc.com>  
To: "Qrp1\_Submit (E-mail)" <qrp-l@Lehigh.EDU>  
Subject: [37540] RE: Parking Lot Portable Vertical (PLPV) Extended to 30 mteres  
Message-ID: <21E06269B00ED111BE9B00805F6D0FA379788A@MAILSERVER1>  
MIME-Version: 1.0  
Content-Type: text/plain

Sorry I left the URL off the original post.

Sam Billingsley AE4GX Atlanta (Buckhead), GA  
<http://ae4gx.home.mindspring.com/>

> The PLPV was already working FB on 20/15/10 but I wanted to extend it to  
> at  
> least 30/40 mtrs. 40 mtrs for contests and 30 mtrs for fun.  
>  
> So here's the latest. The 30 mtr section adds about 8 ft to each radial  
> (2)  
> and a coil above the 20 mtr section and about 1.5 ft above the coil . (The  
> pole being ~20 ft helps here) The inductance is a one inch diameter

> miniductor about 3-4 inches long and measures about 19 uH. I happen to  
 > have  
 > it in the junk box. I was planning to use a drug store pill bottle and  
 > some enamelled wire but the  
 > 30 mtr coil just happened to work as is. This is still experimental.  
 > Your mileage may vary.  
 >  
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SWR	30mtr	20mtr	15mtr	10mtr	
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1.2		10.03	13.9	20.8	28.5
1:1		10.10	14.05	20.98	28.7
1.2		10.16	14.13	21.15	29.0
1.5		10.22	14.25	21.35	29.3
1.7		10.3	14.37	21.6	29.6
2			14.4		29.95

> For more details about construction of the PLPV (antenna and portable  
 > stand) check my web page.

Sam Billingsley AE4GX Atlanta (Buckhead), GA  
<http://ae4gx.home.mindspring.com/>

-----  
 Date: Wed, 07 Apr 1999 12:58:12 -0700  
 From: "Eric Swartz - Elecraft, WA6HHQ" <erics@elecraft.com>  
 To: paolo.sassoli@italtel.it  
 Cc: Wayne Burdick <n6kr@elecraft.com>, QRP-L <qrp-l@lehigh.edu>  
 Subject: [37541] Re: Mail response from Elecraft  
 Message-ID: <370BB8D4.2A5BB288@elecraft.com>  
 MIME-Version: 1.0  
 Content-Type: text/plain; charset=us-ascii  
 Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Hi Paolo,

I apologize for your not receiving a prompt reply from Elecraft. I believe I had replied to your questions, but I must have sent the reply to an incorrect address.

I will sent another reply to you immediately.

73, Eric    WA6HHQ

Paolo wrote:

> -----  
> From: Paolo Sassoli <paolo.sassoli@italtel.it>  
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
> Subject: Mail response from Elecraft  
> Date: Wednesday, April 07, 1999 1:04 AM  
>  
> Hi to all.  
>  
> I wonder if anyone out there tried to contact   Elecraft  
> by e-mail and got responses.  
>  
> I need some informations and wrote to  
> "radios@elecraft.com" (March, 26)  
> and then to "erics@elecraft.com" (April, 1).

-----  
Date: Wed, 7 Apr 1999 14:15:07 -0600 (MDT)  
From: <msix@nmia.com>  
To: Jim Glover <psykey@okcforum.org>  
Cc: qrp-l@lehigh.edu, homebrew@qth.net, glowbugs@piobaire.mines.uidaho.edu,  
okcham@okcforum.org  
Subject: [37542] Re: [HomeBrew] Hardware question  
Message-ID: <Pine.LNX.3.93.990407141250.6190A-100000@plato.nmia.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Model airplane shop sells brass tubing in 1/32" diam sizes.  
Handy. Get a bunch...

73 - John W7ZFB

1400 Catron SE    Albq, NM 87123

\*\*\*\*\*  
\* Homebrewer since 1947    CW    BoatAnchors    Norcal #930 \*

\* BA CW freqs - 3578, 7050, 7118, 14050, 21050, 28050 \*  
\*\*\*\*\*

-----  
Date: Wed, 07 Apr 1999 13:26:19 PDT  
From: "Brad Hernlem" <alihernlem@hotmail.com>  
To: msix@nmia.com  
Cc: qrp-1@lehigh.edu  
Subject: [37543] Re: [HomeBrew] Hardware question  
Message-ID: <19990407202619.91430.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-type: text/plain

Handy stuff but you can probably get it cheaper in a hardware store.

Brad

>From: <msix@nmia.com>  
>Reply-To: msix@nmia.com  
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
>Subject: Re: [HomeBrew] Hardware question  
>Date: Wed, 7 Apr 1999 14:15:07 -0600 (MDT)  
>  
>Model airplane shop sells brass tubing in 1/32" diam sizes.  
>Handy. Get a bunch...  
>  
>73 - John W7ZFB  
>1400 Catron SE Albq, NM 87123  
>\*\*\*\*\*  
>\* Homebrewer since 1947 CW BoatAnchors Norcal #930 \*  
>\* BA CW freqs - 3578, 7050, 7118, 14050, 21050, 28050 \*  
>\*\*\*\*\*  
>

-----  
Get Free Email and Do More On The Web. Visit <http://www.msn.com>  
-----

Date: Wed, 7 Apr 1999 16:28:43 -0400 (EDT)  
From: Bob Patten <n4bp@bc.seflin.org>  
To: QRP-L Reflector <qrp-1@lehigh.edu>  
Subject: [37544] QRP Plus Contact - TNX!  
Message-ID: <Pine.3.89.9904071653.A27142-0100000@bc.seflin.org>  
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Thanks to all who responded to my query about tech support for the Index Labs' QRP Plus. I believe enough of the responses were also posted to QRP-L so that anyone else who might need the info also got it.

73,

Bob Patten, N4BP ( 0 0 ) Plantation, FL

-----o00o-( )-o00-----

E-Mail: n4bp@bc.seflin.org

Web Page: <http://wg104a.wh.uni-stuttgart.de/~n4bp>

Brass Pounder BBS: (954) 472-7715

-----  
Date: Wed, 07 Apr 1999 10:33:08 -1000  
From: "Art Neilson, KH7PZ" <art@hawaii.rr.com>  
To: qrp-l@lehigh.edu  
Subject: [37545] Chemtronics Flux Off - Rosin  
Message-ID: <3.0.6.32.19990407103308.0086fca0@pop-server>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Is this stuff safe to use on a populated PCB? If I nuke the board with it will the electrolytic caps survive? Just want to make sure it's safe to use on the SW40+ I'm building.

/-- ) \_/\_ It is a capital mistake to theorise before one has data.  
/--/ \_ \_ / Insensibly one begins to twist facts to suit theories,  
/ (\_/ (\_<\_\_ Instead of theories to suit facts.  
-- Sherlock Holmes, "A Scandal in Bohemia"

Arthur W. Neilson III, KH7PZ  
Bank of Hawaii Tech Support  
art@hawaii.rr.com

-----  
Date: Wed, 7 Apr 1999 13:43:30 -0700 (MST)  
From: Chris Trask <ctrask@primenet.com>  
To: Homebrew <homebrew@qsl.net>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>, Test-Equipment <test-equipment@qth.net>, Antennas



<antennas@qth.net>  
Subject: [37546] Test Equipment Dealer List  
Message-ID: <Pine.BSI.3.96.990407133750.3500B-100000@usr06.primenet.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

This comes up from time to time, but I just finished looking at the following web site which lists used test equipment dealers:

<http://pw2.netcom.com/~sjnoll/usedequip.html>

which is much more thorough than the one I put together for myself a year or so back. I was looking for a 0-60V, 0-15A power supply for use in designing Class-A power amplifiers up to 500W.

Thought I might pass it along to everyone.

```

      /-----\
     /  What's all this  \
    / extinct stuff, anyhow? \
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```

Circuit Design for the  
RF Impaired

Chris Trask / N7ZWY  
Principal Engineer  
ATG Design Services  
P.O. Box 25240  
Tempe, Arizona 85285-5240

Technical Editor,  
QRP Quarterly  
QRP ARCI 9464

Email: [ctrask@primenet.com](mailto:ctrask@primenet.com)  
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

---

Date: Wed, 7 Apr 1999 15:55:04 -0400  
From: "wayne reed" <[wltreed@viaduct.custom.net](mailto:wltreed@viaduct.custom.net)>  
To: "QRP-L" <[qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)>  
Subject: [37547] Lightning Protection  
Message-ID: <003501be8130\$8c839700\$514961ce@q7c8d5>  
MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Have any of you considered whole house protection, that is, full installation of rods on roof and network of grounds outside house as described by the [forget exact citation] National Board?

Wayne Reed, K9NE

-----  
Date: Wed, 7 Apr 1999 14:37:00 -0700  
From: Dave Barrett <DBarrett@creo.com>  
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>  
Subject: [37548] WANTED: Electronics Data Book for Homebrewers & QRPers by Paul Harden NA5N  
Message-ID: <CE0A40BFE0CDD111A2B800A0C99B83EB013136D6@msgcreo2.creo.bc.ca>  
MIME-Version: 1.0  
Content-Type: text/plain

Hi All Does anyone know of a copy of the Electronics Data Book for Homebrewers & QRPers by Paul Harden (NA5N) that's in need of a good home?? or alternatively, is it still in print? and if so where?

Just had my first look at it over last weekend at VE7QK's house while checking out his latest iteration of the now legendary Epiphyte 3 soon to be announced as a kit from NorCal I believe.

Thanks in advance for any leads in obtaining a copy of the above book.

Dave Barrett VE7PCC

Vancouver BC Canada

(Recumbent

Builder :-)

-----  
Date: Wed, 7 Apr 1999 23:54:14 +0200  
From: "Peter Zenker" <Peter\_DL2FI@csi.com>  
To: "'QRP-L via PoP3'" <qrp-1@lehigh.edu>  
Cc: "'Volkmar Junge'" <wimo-antennen@t-online.de>  
Subject: [37549] Tweaking the GAP - it works  
Message-ID: <000001be8141\$68c74620\$aa2de8c3@zenkerpn>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Hello QRP fellows,  
thanks to all who sent me informations abt the GAP. It was extrem helpful to have this infos while experimenting.

Here are the results:

15m: no problem, adjusted the rod with the long ectention. Now resonant at 21.060

12m: no problem, adjusted the rod with the short extention. Now resonant at 24.980

17m: no problem, adjusted the shorter of the lower rods with an additional alu tube, resonant at 18.090

20m: The extraordinaire bandwith is a sum of resonant QRGs. I added a piece of alu tubing at the longer lower rod. 20 m resonant now at 14.070

10m: that was a little bit tricky. Adding some wire to the wire extention at the rod with the yellow cap had NO result. I added a piece of wire to the NON isolated aluminiua tube oposite to the tube, where the short wire extention is connected )That one, with the yellow cap). My wire is abt 1 Meter long. This brought the 10 m resonance down to 28.100, the 40m resonance now was to low. I shortened the long counterpoise wire by 20cm. Now 40 m is resonant at 7.070 and 10m is resonant at 28.120

All this mods lowered my 30m resonance to 9.990. But because at 10.100 the SWR is less then 1.4, this is not a real problem. Only by means of interest I will try to add some cm of wire to the lower element of the GAP romorrow morning.

Summary:

The GAP Titan is resonant at ALL bands now allthough 30m is a little bit low. 20m bandwith is not so broad as it seemed to be first, but it is a multyresonance Problem.

72 and thanks again, Peter

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Date: Wed, 7 Apr 1999 18:00:16 -0400

From: "Harry T. Hurst" <hhurst@delaware.infi.net>

To: <alihernlem@hotmail.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [37550] Re: [HomeBrew] Hardware question

Message-ID: <004501be8142\$06cd6020\$2f4b9ace@hhurst>

MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

The hardware store here sells the identical items for a lot less.

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Date: Wed, 7 Apr 1999 16:30:19 EDT  
From: MKBalvanz@aol.com  
To: qrp-1@lehigh.edu  
Subject: [37551] 10 Meter antenna help for a novice...  
Message-ID: <90c42972.243d1a5b@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Gang,

With the number of sunspots going up and the only band I have phone privileges on being 10 meters. I'd like to put up an antenna specifically for 10. The current antenna is a half wave long on 40m at 16 feet, fed with 450-ohm window line to my MFJ-949 tuner. I've used this with considerable success on the 40, 15 and 10 meter novice bands. During the ARRL DX contest I worked 17 stations with this setup and 9 more DX stations during the CQ WW WPX contest. On 10 meters the lobes for a 2 wavelength wire are pointed toward South America, Africa, the South Pacific and just west of the north pole, but not far enough west for Japan.

One thing I've noticed with this setup is the only stations that I have regularly inside the US are the 6 landers. Once in a while I'll hear the east coast, but not very often. Is this normal for ten meters or something with my antenna?

I'd like to add a gain antenna, but don't want to install a rotator and don't want anything really complicated. I thought about putting a ground plane on the roof, simple and probably effective. I've also considered several slopers for 10 that could be switched. Or a phased vertical system.

If it's possible I'd like to be able to work more domestic stations with the antenna, but I don't want to ignore DX completely.

Any advice?

Matthew KC0AYG  
Ames, IA KC0AYG@KI0Q.#cia.ia.usa.na

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Date: Wed, 7 Apr 1999 16:52:59 -0600  
From: "Carl Zmola" <zmola@campbellsci.com>  
To: MKBalvanz@aol.com  
Cc: qrp-l@lehigh.edu  
Subject: [37552] Re: 10 Meter antenna help for a novice...  
Message-ID: <19990407225014767.AAA62@carl-zmola>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-Transfer-Encoding: 7BIT

> I'd like to add a gain antenna, but don't want to install a rotator and don't  
> want anything really complicated. I thought about putting a ground plane on  
> the roof, simple and probably effective. I've also considered several  
> slopers for 10 that could be switched. Or a phased vertical system.  
>  
> If it's possible I'd like to be able to work more domestic stations with the  
> antenna, but I don't want to ignore DX completely.

I know it sounds strange, but I get better results on 10 in my car  
than at home. I have an htx100 10M mobile that I run from my car.  
(It is sitting on the front seat and gets packed up occasionally into  
a bag). A mag mount capacitively grounds the antenna to the car  
which provides a great ground plane. There is no tuner, I just tuned  
the length of the antenna for the center of the novice band.

With 10M it is important to keep your feedline short if you are using  
RG58. Feed line absorbtion on coax is non trivial on this band.

Carl  
zmola@campbellsci.com

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End of QRP-L Digest 1419  
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